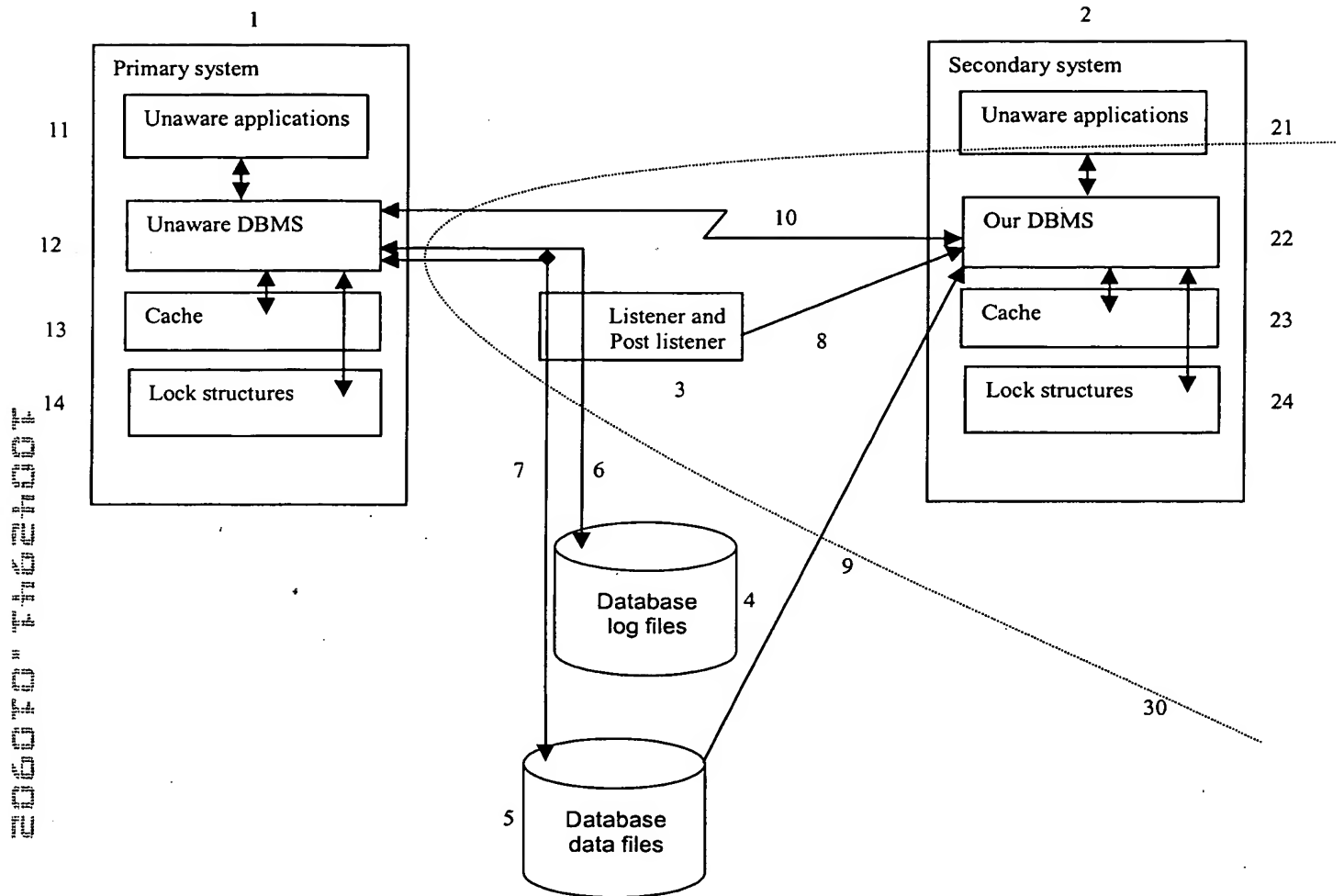
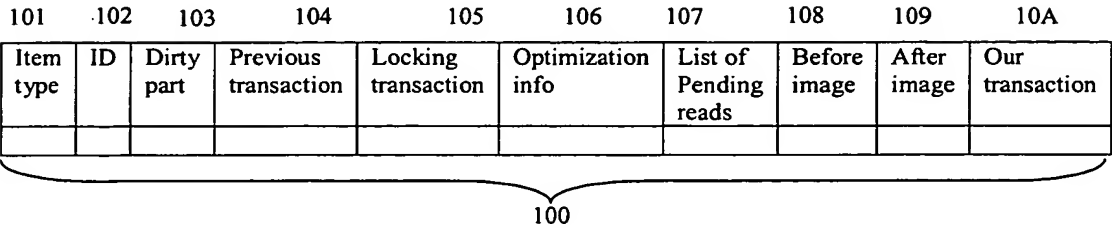


## Figures

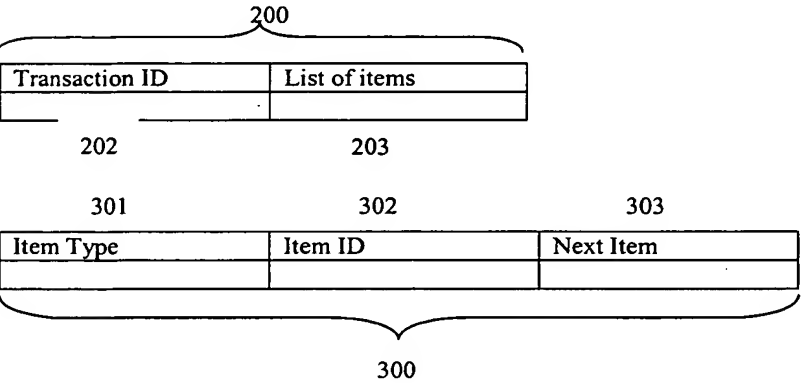
*Fig 1 – Bird's eye view of the system*



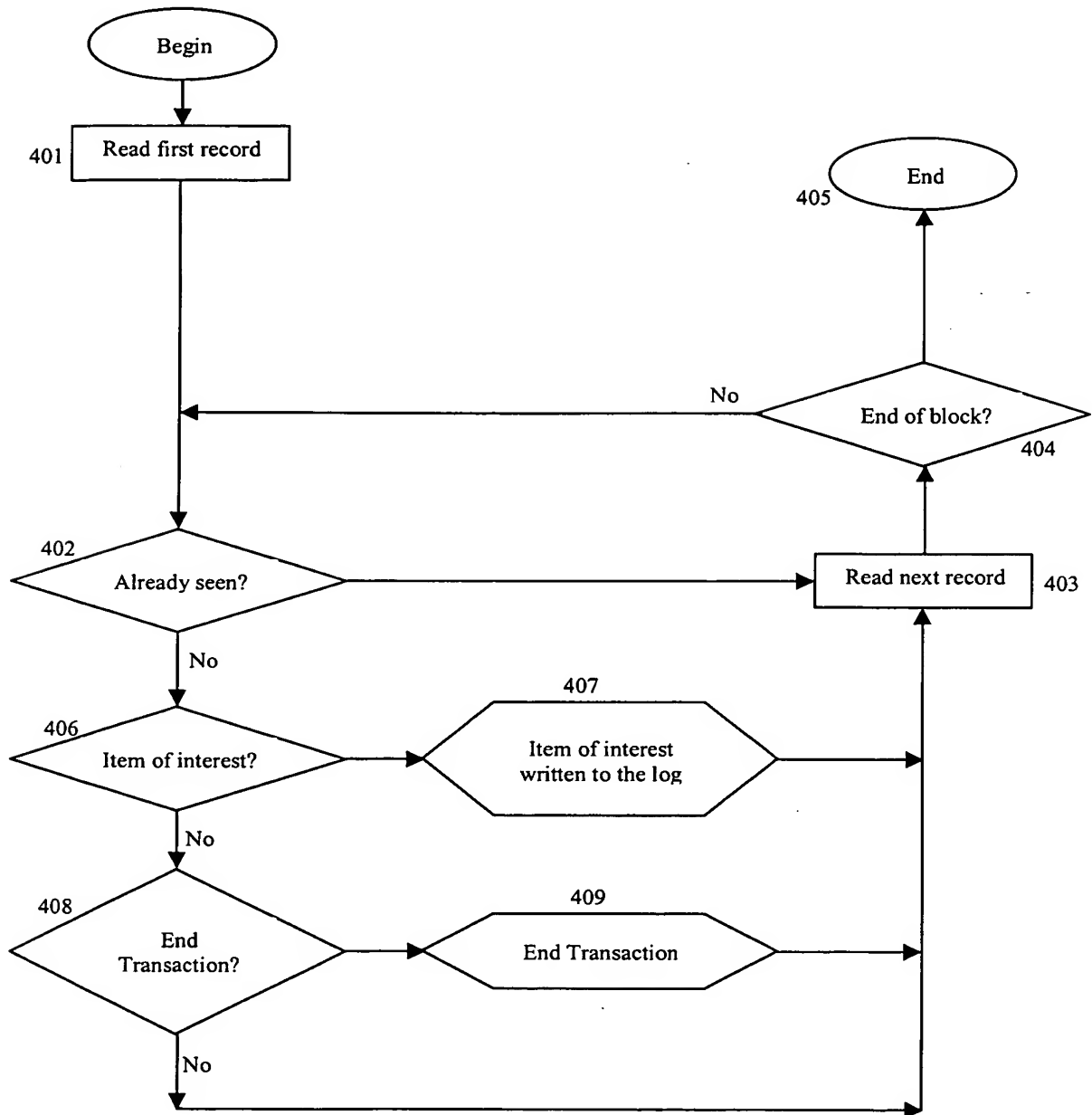
**Fig 2 – the structure describing an Item of Interest**



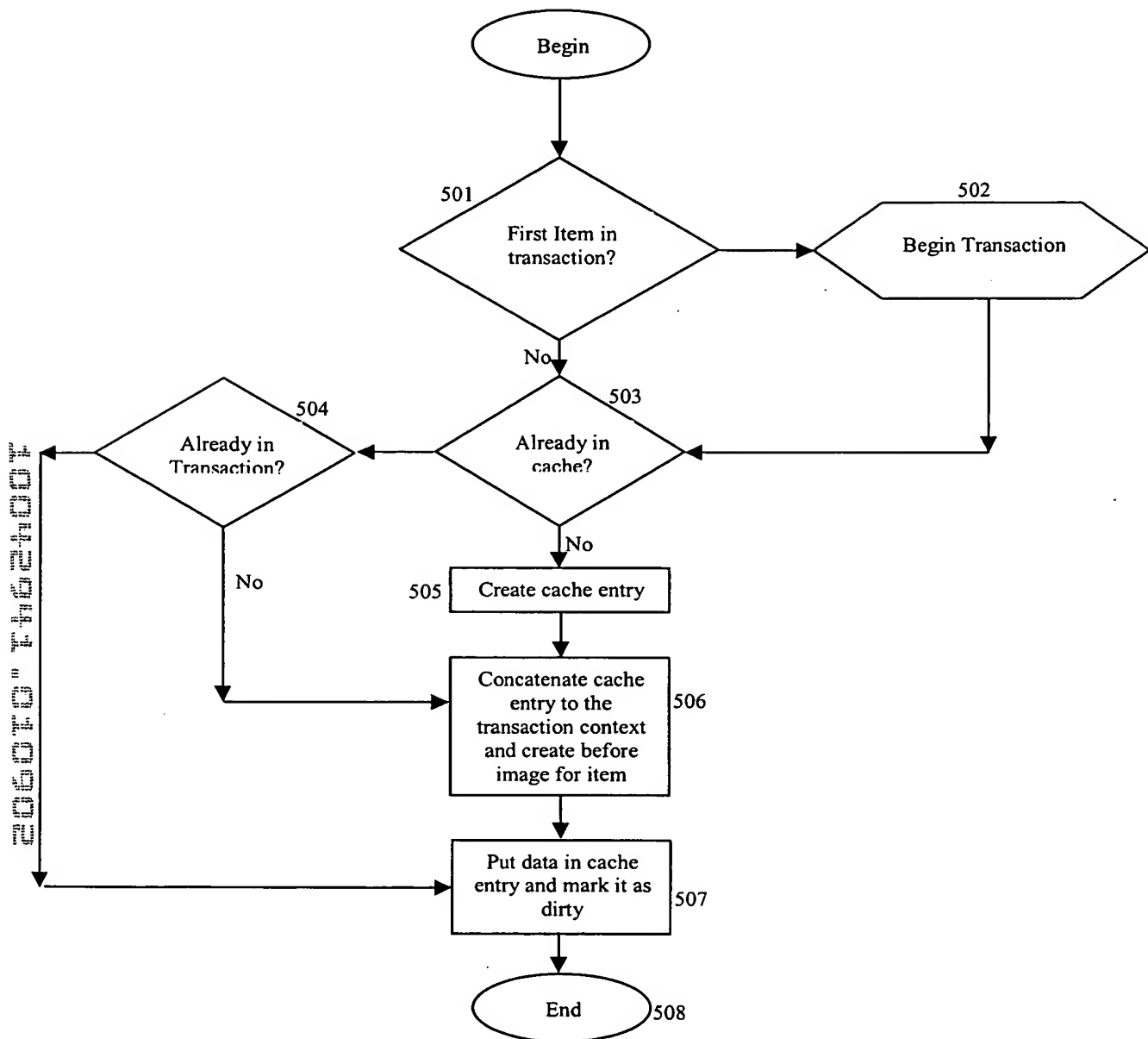
**Fig3 – The structure describing a transaction**



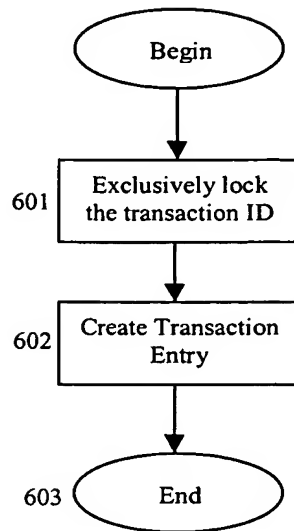
**Fig 4 – Physical block written to the log**



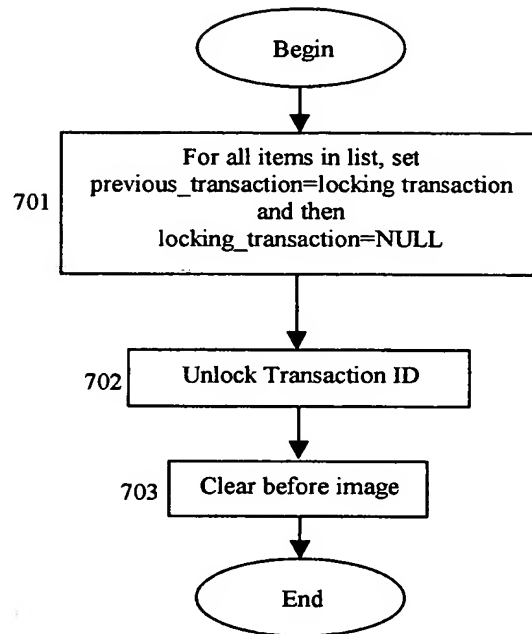
*Fig 5 –Item of Interest written to the log*



***Fig 6 –Begin Transaction***

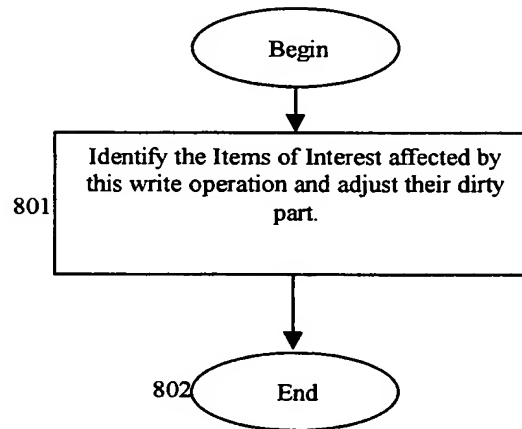


**Fig 7 –End Transaction**

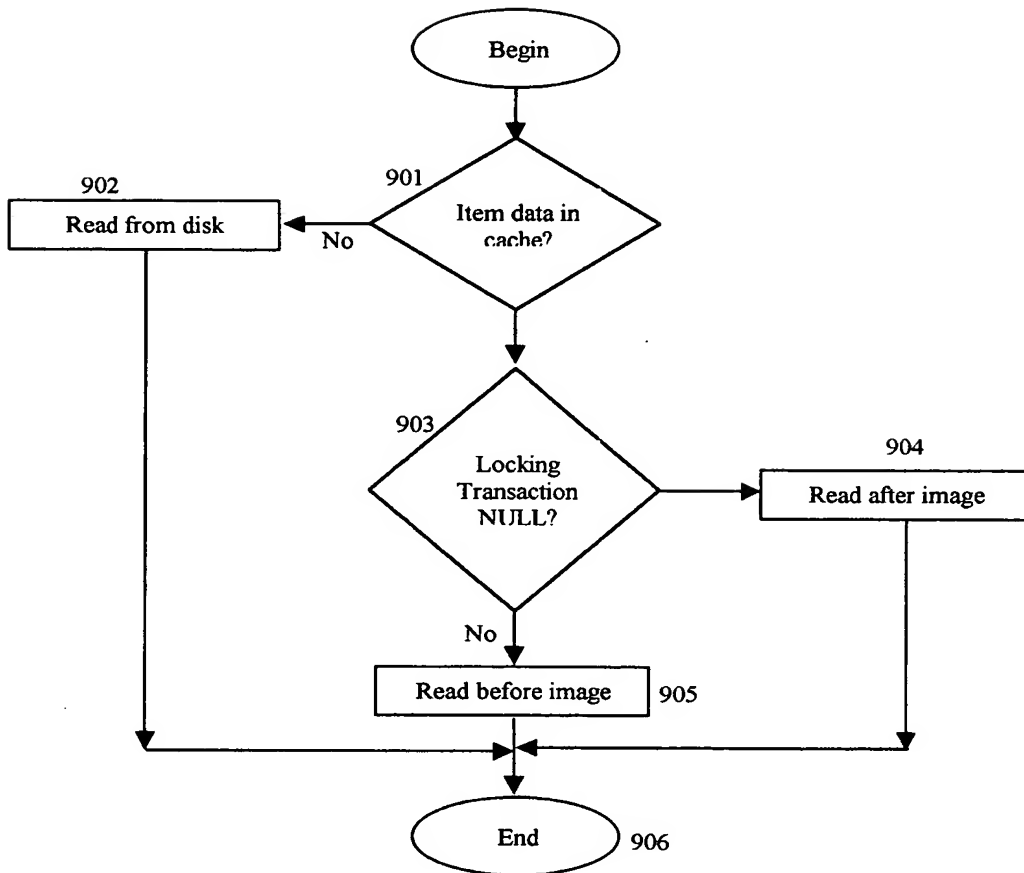


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***Fig 8 –Physical block written to the database***

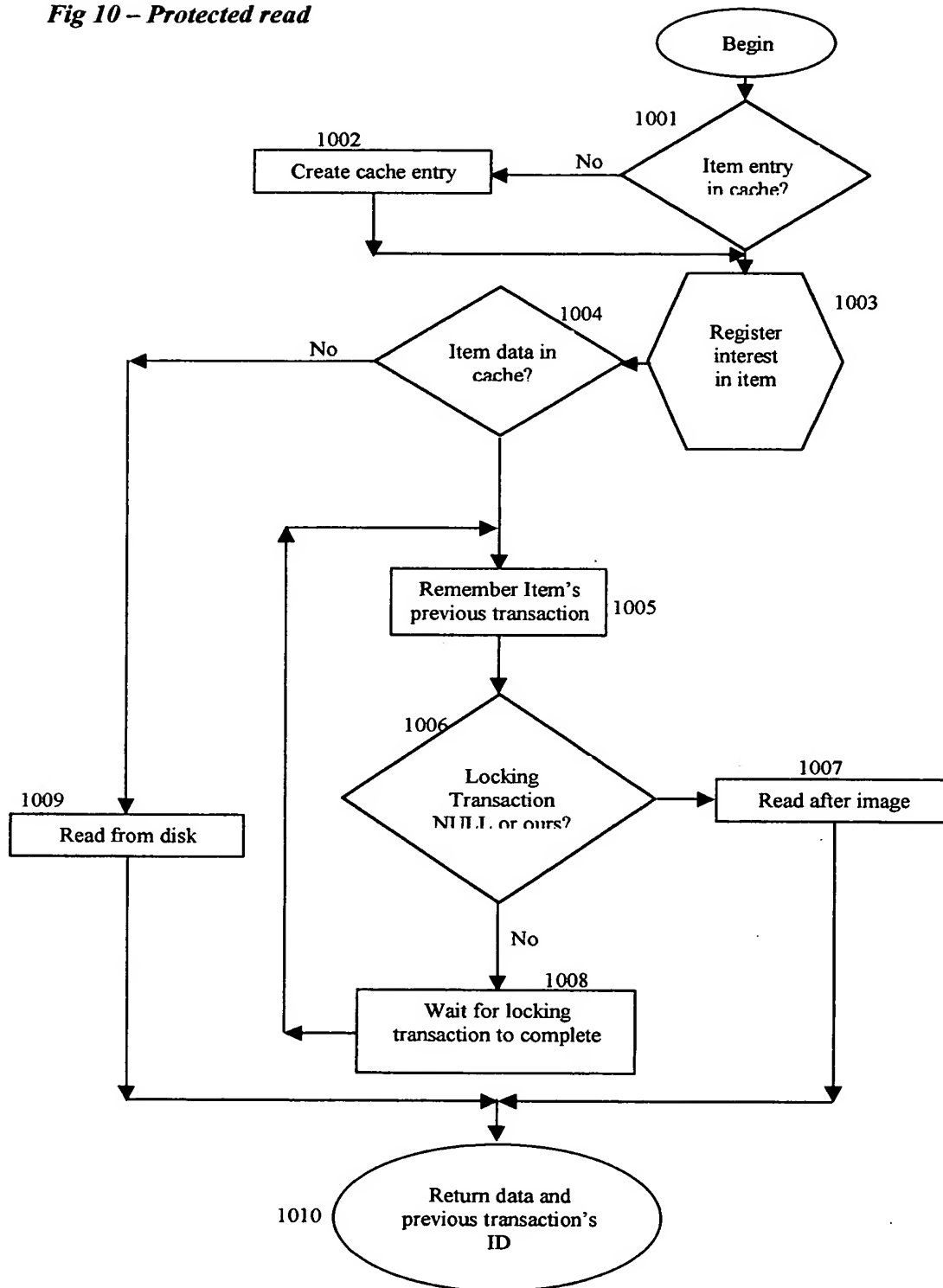


**Fig 9 –Unprotected read**

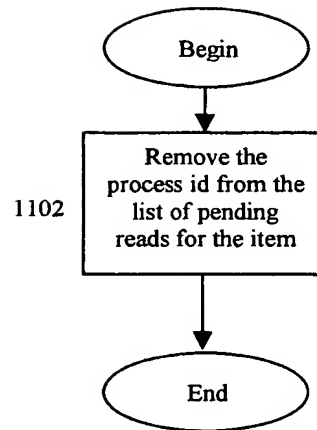
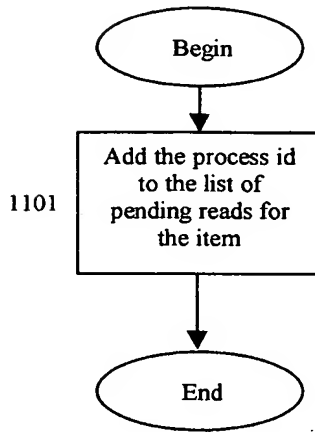




**Fig 10 – Protected read**

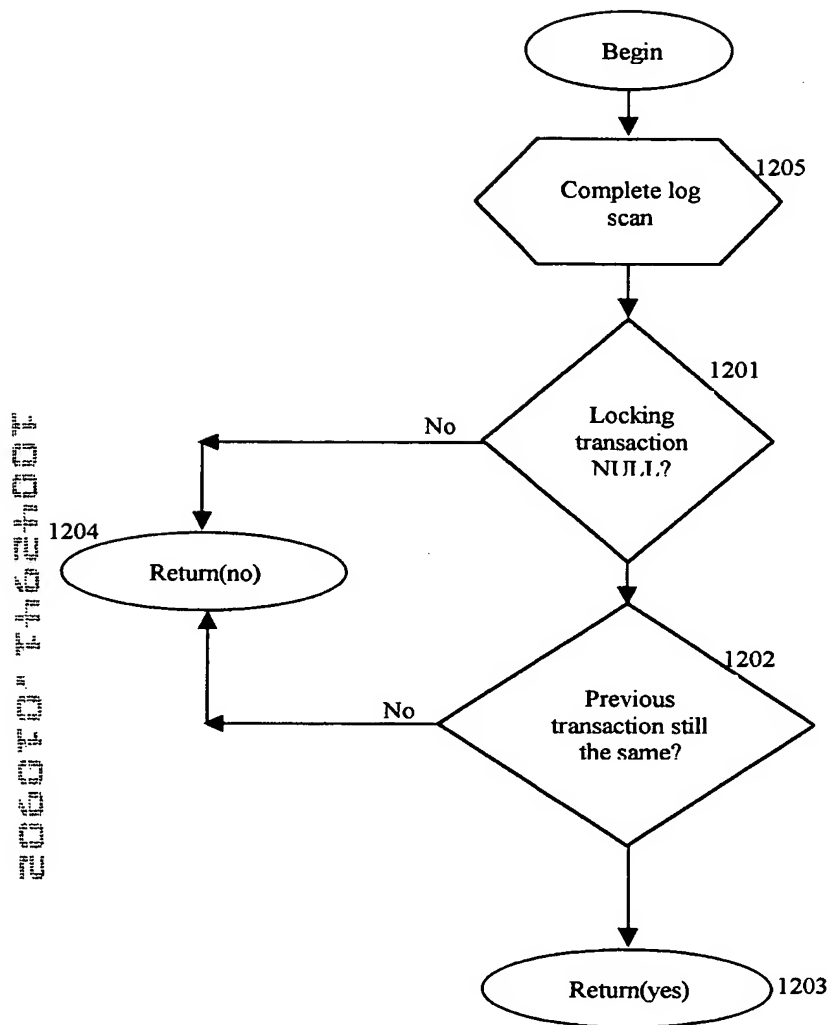


**Fig 11 – Register and unregister interest in item**

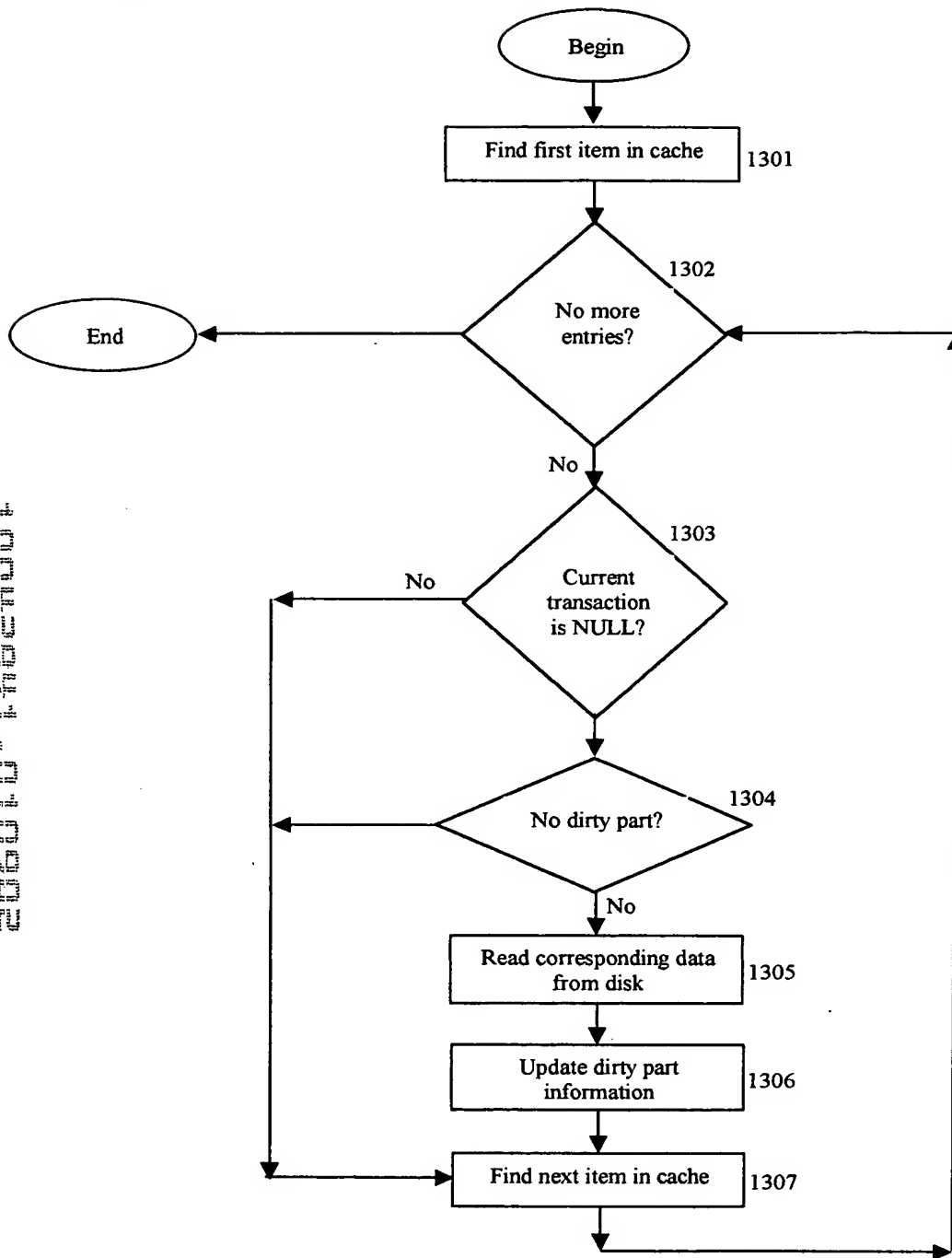


2000011521001

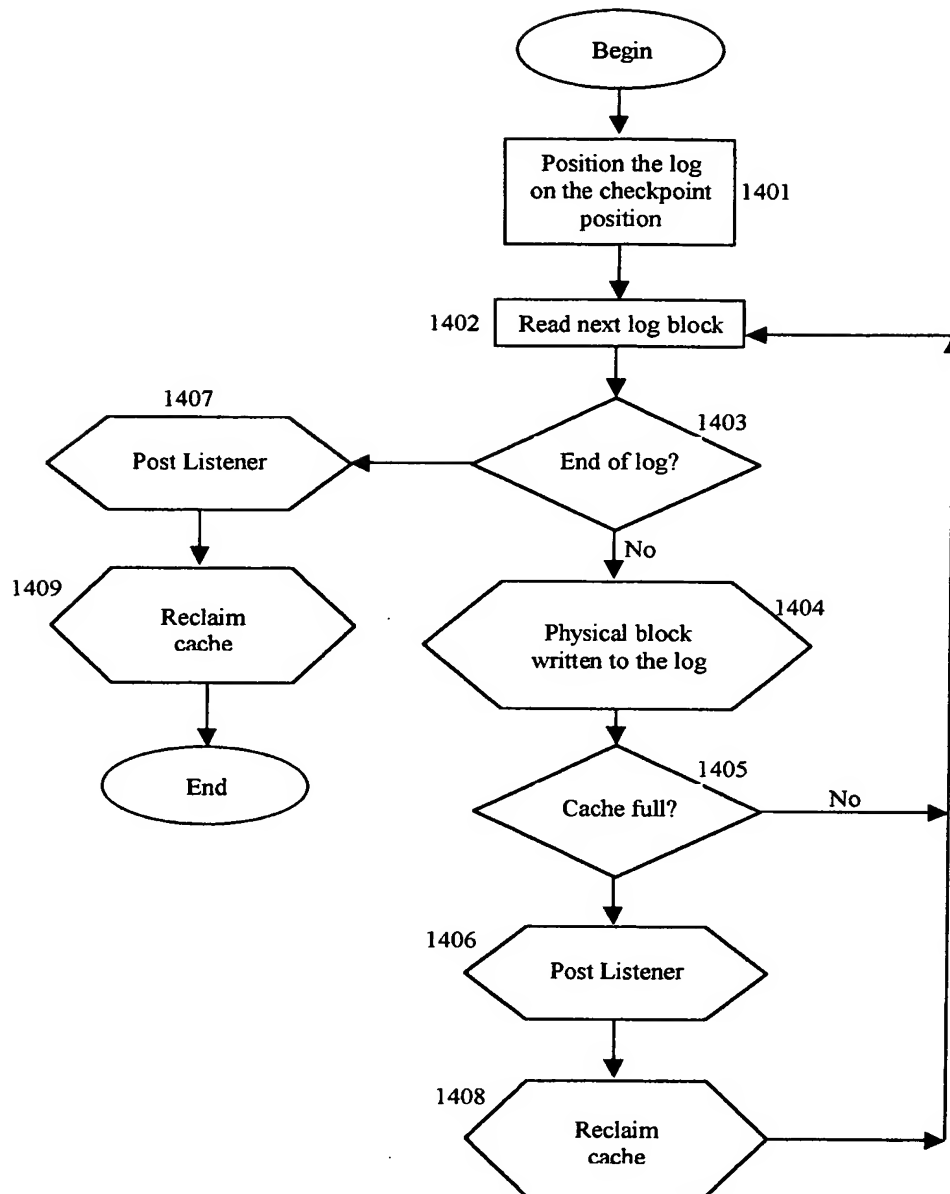
**Fig 12 – Check Item validity**



*Fig 13 – Post listener*



**Fig 14 – Recovering the system**

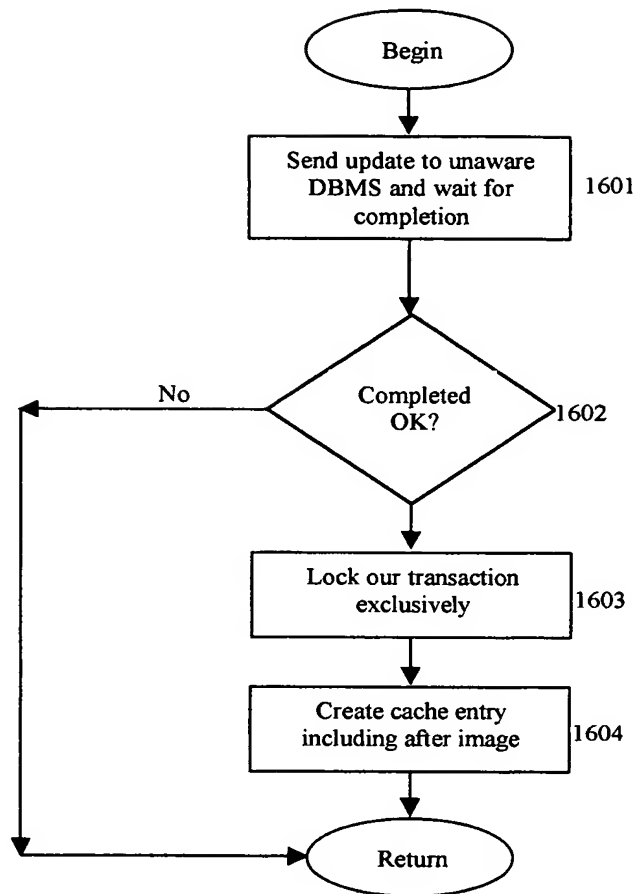


**Fig 15 – Entries in the Process items list**

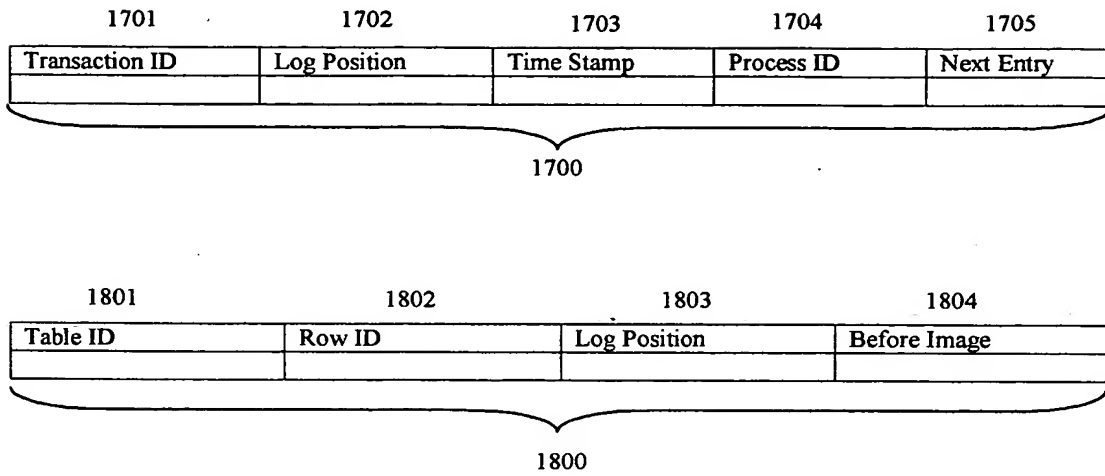
Item Type	Item ID	Previous transaction

1500

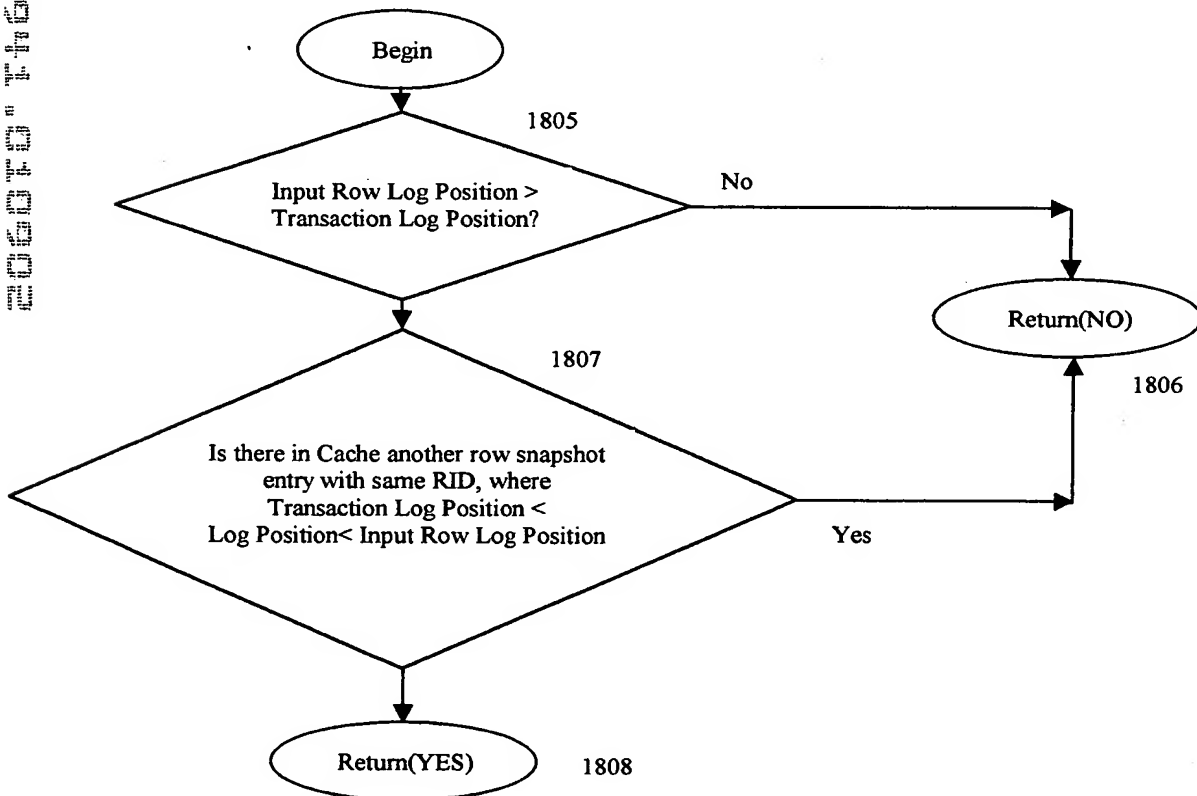
**Fig 16 – Initiating update**



**Fig 17 – Supporting snapshots**



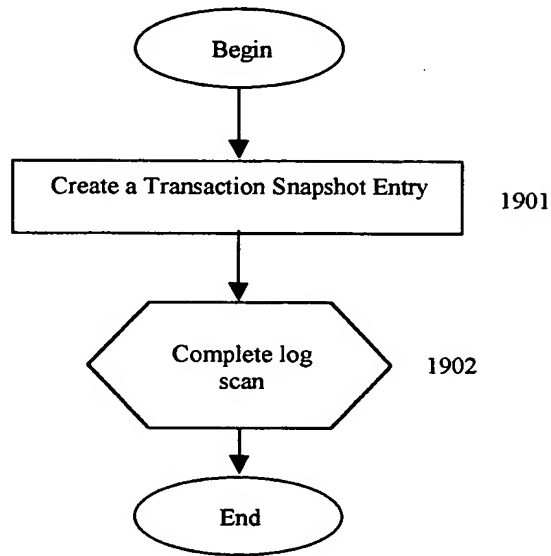
**Fig 18 – is\_needed**



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**Fig 19 – Start a serializable transaction**



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**Fig 20 – Snapshot Read**

